

Infinity Management Guide

1. What is Infinity Management?

Infinity Management is a deployment tool offered by Heimdal Security that will provide you the ability to deploy software within your organization and to keep the deployed pieces of software up to date.

Infinity Management is also a tool that can offer the possibility to silent deploy applications. Any applications that support silent installation commands (/I; /qn; /s; /update etc) can be deployed using Infinity Management.

With this tool, you can deploy applications that have the following extensions: msi, exe, msp or zip.

By default, Infinity Management is not activated on your account. You have to contact your Account Manager from Heimdal Security or the person who is administrating your account and tell them to activate Infinity Management for you.

When using the Infinity Management Module, you are required to set up a download limit. This download limit cannot be zero. The minimum required is 1TB and the maximum allowed is 1000 TB.

2. Where do I find Infinity Management in my Dashboard Account?

Once this module has been activated for your account, you will find it in the X-ploit Resilience tab, from the left menu of the Dashboard.

If you do not know how to reach it, please follow these steps:

1. Log into your Dashboard account from here: <https://dashboard.heimdalsecurity.com>
2. From the left Menu, select X-ploit Resilience
3. Click on the Infinity Management View

Thor exploit RESILIENCE FORESIGHT

2	Number of vulnerabilities	12	Number of patches applied
6	Number of software updated	24	Number of software monitored

Search by name

STANDARD VIEW | PATCHES PER ENDPOINTS VIEW | CURRENT VULNERABILITIES VIEW | **INFINITY MANAGEMENT VIEW** | A TOTAL OF 2 LISTINGS

+ ADD NEW APP | VIEW PRIVATE PATCHING STORAGE

3.5 MB Downloaded / 1.0 TB Total

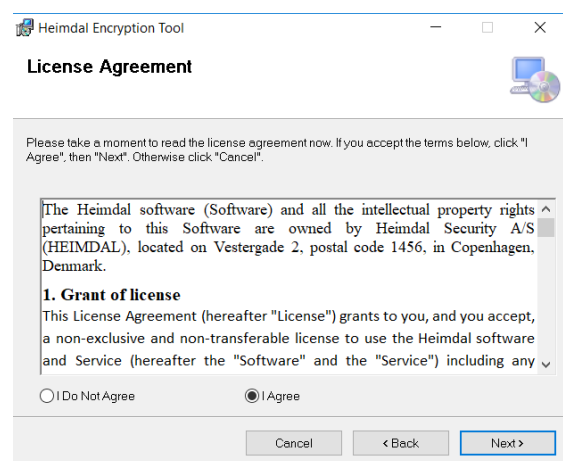
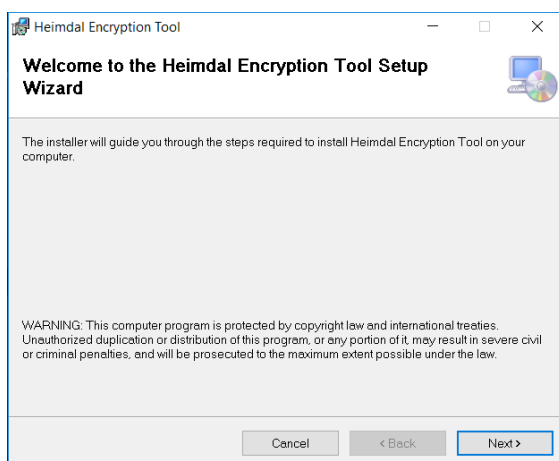
3. How do I create/deploy my first application?

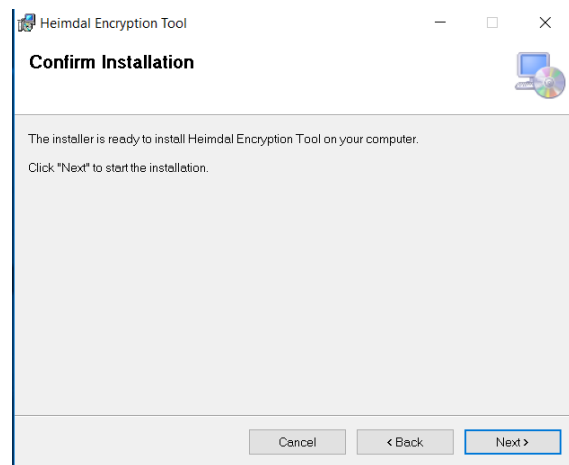
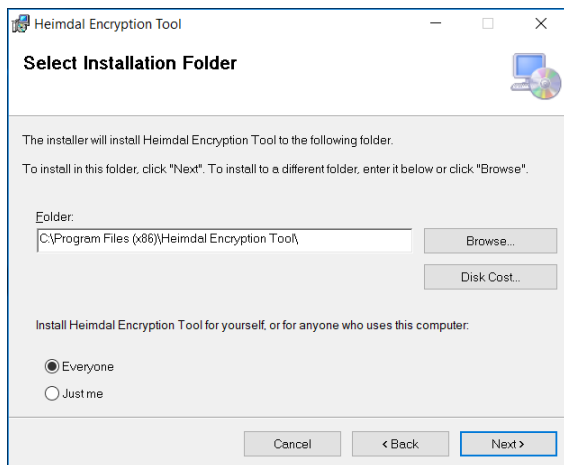
Download the Heimdal Encryption Tool

Heimdal Encryption Tool is that application that you will use to encrypt the packages you want to deploy in your organization.

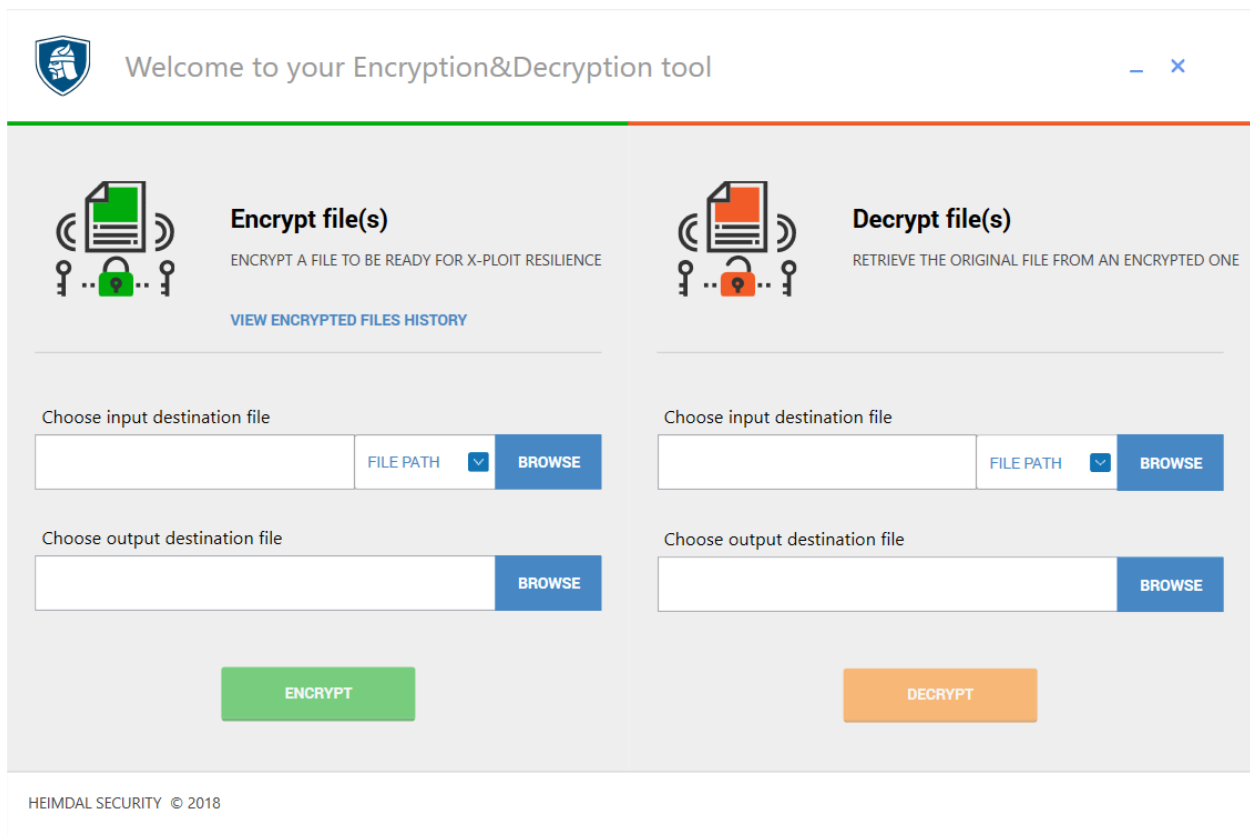
We require you to encrypt the applications you need to deploy for safety reasons. To download the Heimdal Encryption Tool, please go to the Infinity Management View, click on the View Private Patching Storage and press Download Heimdal Encryption Tool.

After you have downloaded the Heimdal Encryption Tool on your machine, you can start the installation procedure.





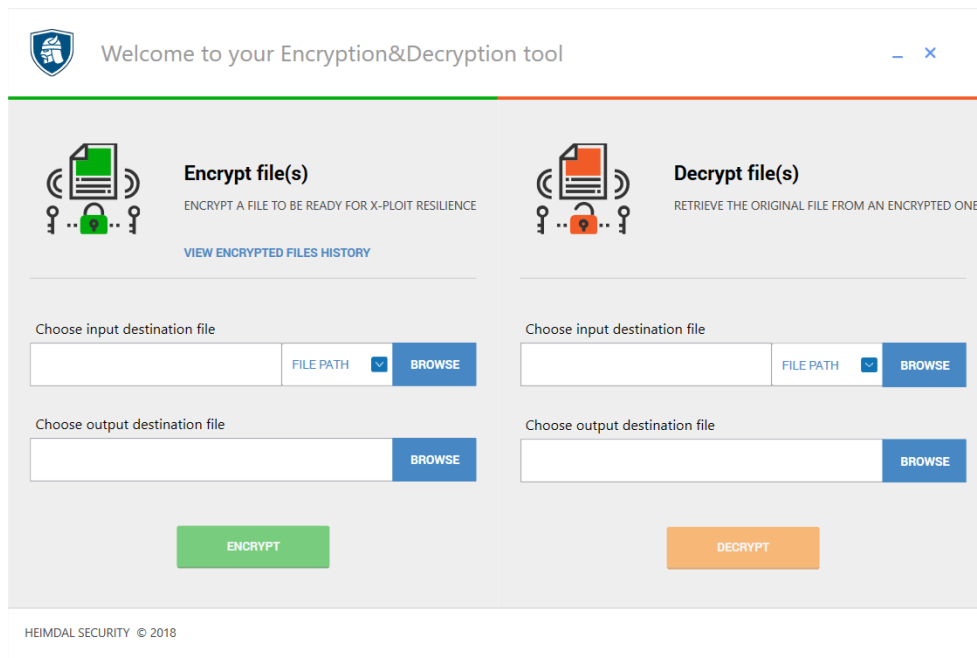
Once the encryption tool is installed, it will automatically be launched and a desktop icon will be created.



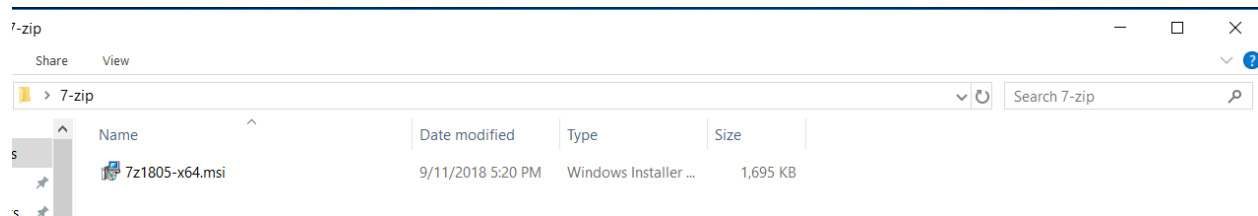
Encrypting the software that is meant to be deployed

Here are the steps you need to follow to encrypt a piece of software:

- Create a new folder on your Desktop or any other location in which you will place your application (in our example we will use 7-zip)
- Open the Heimdal Encryption Tool



- From the left side of the app we need to select the input destination files
You can do it by pressing the Browse button and navigating to the folder where you added the application.



Next to the Browse button, there is a small arrow from where you can choose between two options: File Path and Folder Path.

File Path – means that you will navigate and select one application and encrypt it

Folder Path – is the option that you want to choose when you need to encrypt more than one application at once.

Welcome to your Encryption&Decryption tool

Encrypt file(s)
ENCRYPT A FILE TO BE READY FOR X-PLOIT RESILIENCE
[VIEW ENCRYPTED FILES HISTORY](#)

Choose input destination file
ALSECURITY\Desktop\7-zip\7z1805-x64.msi FILE PATH BROWSE

Choose output destination file
BROWSE

ENCRYPT

HEIMDAL SECURITY © 2018

- d. Next step is to select the output destination folder. This is the folder where the encrypted version of your file will be placed. We suggest selecting the same folder where you have placed your application.

Welcome to your Encryption&Decryption tool

Encrypt file(s)
ENCRYPT A FILE TO BE READY FOR X-PLOIT RESILIENCE
[VIEW ENCRYPTED FILES HISTORY](#)

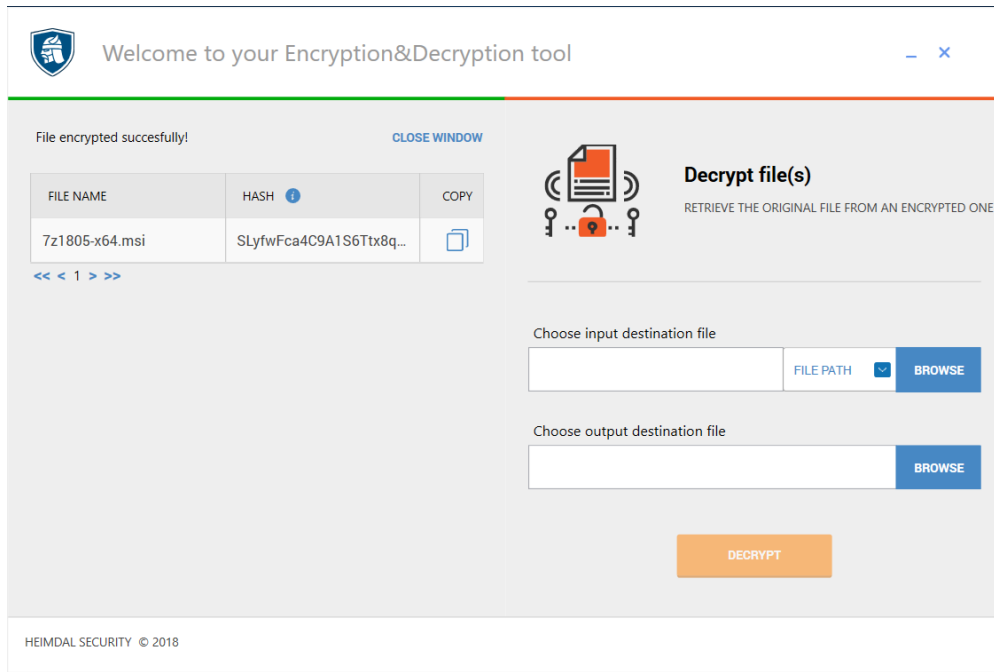
Choose input destination file
ALSECURITY\Desktop\7-zip\7z1805-x64.msi FILE PATH BROWSE

Choose output destination file
C:\Users\ [redacted] \Desktop\7-zip BROWSE

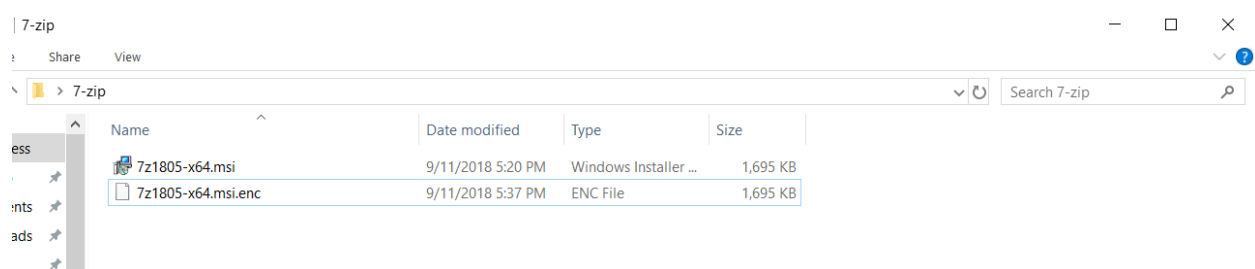
ENCRYPT

HEIMDAL SECURITY © 2018

- e. Once you have selected the output destination, press the green Encrypt button and a new window will show. From here, you will be able to see the name of the application you have encrypted, the hash of the file and a copy button that will copy the hash of the file.



Note: You can also find the encrypted version file in the output destination folder. It will be the file(s) with the extension *.enc.



If you don't have the option to see the extensions on your machines, we suggest to activate it, see here how: <http://kb.winzip.com/kb/entry/26/>

4. Create the deployment package in the Dashboard

Once the file has been encrypted, you can move to our Dashboard <http://dashboard.heimdalsecurity.com/> and create the package.

Upload the application

The first step that you need do to is upload the encrypted version of your application in the dashboard. You can do it by following these steps:

- Navigate to the infinity management view
- Click View Private Patching Storage
- Press Upload Files
- A new window will pop-up
- In this new window press the Import button
- Go to the folder where the encrypted version of your software is and select it
- The files size will be autocompleted.
- Press the add button

ADD PRIVATE PATCH

FILENAME*

7z1805-x64.msi.enc

IMPORT

FILESIZE*

1.7 MB

Add

Cancel

Once the application was added, you should receive a message saying that your application was downloaded and should appear in your Private Patching Storage.

← Back to Infinity Management

Search by name

Q

UPLOAD FILE

DOWNLOAD HEIMDAL ENCRYPTION TOOL

A TOTAL OF 1 LISTINGS

1.7 MB Used / 50.0 GB Free

NAME	FILE SIZE	TIMESTAMP	ACTION
7Z1805-X64.MSLENC	1.7 MB	11.09.2018 18:08:27	✖

FIRST PAGE

1

LAST PAGE

GO TO PAGE

ITEMS PER PAGE

10

Create the deployment package

Now that the application is in our system, the next step is to create the deployment package.

To do that you need to return to the Infinity Management View and press ADD NEW APP.

The screenshot shows the Thor Foresight Infinity Management View interface. At the top, there are logos for Thor Foresight and X-ploit Resilience. Below the logos, there are four statistics: 2 Number of vulnerabilities, 12 Number of patches applied, 6 Number of software updated, and 24 Number of software monitored. A search bar with the text "Search by name" and a magnifying glass icon is present. Below the search bar, there are four tabs: STANDARD VIEW, PATCHES PER ENDPOINTS VIEW, CURRENT VULNERABILITIES VIEW, and INFINITY MANAGEMENT VIEW. The INFINITY MANAGEMENT VIEW tab is selected. Below the tabs, there are two buttons: "+ ADD NEW APP" (highlighted with a red box) and "VIEW PRIVATE PATCHING STORAGE". Below the buttons, there is a progress bar showing "3.5 MB Downloaded / 1.0 TB Total". Below the progress bar, there is a table with three columns: NAME, TIMESTAMP, and ACTION. The table is empty, and the text "There are no results" is displayed. Below the table, there is a pagination bar with "FIRST PAGE", "1", "LAST PAGE", "GO TO PAGE", and "ITEMS PER PAGE 10".

You will be redirected to a new page where you will have to fill in some details about your application.

The screenshot shows the application configuration page. At the top, there is a "Back to Infinity Management" button. Below the button, there is a section titled "APPLICATION INFO". In this section, there are two input fields: "APPLICATION NAME*" with the value "7-zipABC" and "ARCHITECTURE*" with the value "Both". Below these fields, there is a section titled "CUSTOM EXPRESSIONS*" with the text "PLEASE ENTER TO SUBMIT THE CUSTOM EXPRESSION". Below this section, there is a text area with the value "7-Zip*". Below the text area, there is a link "Hide Custom Expressions Helper". Below the link, there is a box containing the following text: "name* - application name starts with name Ex: Teamviewer* will match Teamviewer 11 and Teamviewer 11 Host", "name* - application name ends with name Ex: *Host will match Teamviewer 11 Host", "name* - application name contains name Ex: *Shockwave* will match Adobe Shockwave Player and Adobe Shockwave", "name* - application name equals name Ex: Microsoft Silverlight will match Microsoft Silverlight", "name* - application name doesn't starts with name Ex: !Teamviewer* will ignore Teamviewer 11 and Teamviewer 11 Host", "name* - application name doesn't ends with name Ex: !*Host will ignore Teamviewer 11 Host", "name* - application name doesn't contains name Ex: !*Shockwave* will ignore Adobe Shockwave Player and Adobe Shockwave", and "name* - application name doesn't equals name Ex: Microsoft Silverlight will ignore Microsoft Silverlight". At the bottom of the page, there are two buttons: "SAVE" and "CANCEL".

1. **Application name** - here you have to give a name to your application and you can choose however you want
2. **Architecture** – from here, you select on what type of OS version your application works, x64, x86 or both.
3. **Custom Expressions** – a set of rules that you have to use in order to help Heimdal detect and patch the correct application. This option tells Heimdal what application to detect and patch based on the name the application shown in Control Panel.

Why? Because the Infinity Management system does not know what application you are targeting, and you need to tell specifically what to detect and patch.

The Show Custom Expressions Helper button will show you what type of expression you have to use for each case.

Example: Let's say that all the machines from your organization have Adobe Photoshop and Adobe Illustrator installed and you just one to create a patch for Adobe Photoshop.

If you add as a custom expression Adobe*, that means the patch you have create for Photoshop will also try to patch Illustrator because Thor will try to find and patch all the applications that start with Adobe.

The correct custom expression that you have to use in this case is Adobe* & *Photoshop, which means searching for all the applications that start with Adobe and end with Photoshop.

You have to pay close attention to these rules and understand them before deploying a patch; otherwise, you might patch by mistake or damage other applications!

If you do not know how to use these expressions, we suggest contacting our support team before going further!

After you have entered the correct expression, you have to press enter on your keyboard to save it.

CUSTOM EXPRESSIONS*

✕ 7-Zip*

The custom expression input allows you to add more than one expression if it is needed.

After the expression has been added, press the Save button.

Once the Save button is pressed, the ADD PATCH button will appear.

Back to Infinity Management

APPLICATION INFO

APPLICATION NAME* 7-ZipABC

ARCHITECTURE* Both

CUSTOM EXPRESSIONS*

7-Zip*

Show Custom Expressions Helper

PATCHES INFO

ADD PATCH

By pressing the Add Patch button, a new window will appear.

Here is where you have to complete some information about your patch.

PATCHES INFO

ADD PATCH

PRIVATE PATCHES* 7z1805-x64.msi.enc

URL* https://patchingprodcn.azureedge.net/customer-55105/7z1805-x64.msi.enc?sv=2014-02-14&sr=c&sig=xf

CHECKSUM* SLyfwFca4C9A1S6Ttx8qmw==

VERSION* 18.05.00.0

TYPE* Default

INSTALL ARGUMENTS /qn

APPLIES TO SPECIFIC VERSION All

☐ APPLIES TO ALL UPPER VERSIONS

1. You need to select the application for which you want to create the patch. In our case, this is 7-Zip
2. Once you have selected the application, the URL and the Checksum inputs will be autocompleted
3. You need to add the version of the software you want to deploy

Important! You have to add the exact version that is displayed in Control Panel for your software.

Organize ▾				
Name	Publisher	Installed On	Size	Version
µTorrent	BitTorrent Inc.	5/29/2018		3.5.0.43916
7-Zip 18.05 (x64 edition)	Igor Pavlov	5/4/2018	5.09 MB	18.05.00.0
Adobe Acrobat Reader DC	Adobe Systems Incorporated	8/15/2018	438 MB	18.011.20058
Adobe AIR	Adobe Systems Incorporated	9/12/2018	13.6 MB	31.0.0.96
Adobe Flash Player 31 NPAPI	Adobe Systems Incorporated	9/12/2018	20.2 MB	31.0.0.108
Adobe Flash Player 31 PPAPI	Adobe Systems Incorporated	9/12/2018	20.1 MB	31.0.0.108
Adobe Shockwave Player 12.3	Adobe Systems, Inc	6/14/2018	52.3 MB	12.3.4.204

Our recommendation is to manually install the software on your computer and check the version in Control Panel. The version from Infinity Management has to match the exact version that is displayed in Control Panel.

4. Type – here you have two options Default and Archive. You should let this option on Default and change it only if you deploy a package that has a .zip extension
5. Install Arguments – here you need to insert the silent installation commands for your software or you can add other arguments/ switches
6. Applies to a specific version – if you already have created patches for this application in the past, this option allows you to apply your new patch on a certain version. If this is the 1st patch you create, this option is null, you won't be able to use it

If you checked all the above points, you can use some other optional inputs.

BEFORE INSTALL

☐ UNINSTALL ALL PREVIOUS VERSIONS

UNINSTALL SPECIFIC VERSION

All

EXECUTE SCRIPT

AFTER INSTALL

EXECUTE SCRIPT

Before install – this means the actions you define here will apply before installing the patch

1. **Uninstall all previous versions** – some applications, when you patch them, they do not automatically remove the previous version and you might end up with two version of the same software installed on your machines. If you enable this version, we will make sure to remove the previous versions of the software.
2. **Execute script** – This is an input where you can add any type of scripts depending on your needs. The only requirement is that the script you insert here to also work in command prompt.

After install – this means the actions you do here will applied after installing the patch

3. **Execute script** – same as point 2

The last steps to finish your patch are:

1. Select for what type of OS you want to deploy your software

CHOOSE OPERATING SYSTEM*

<input checked="" type="checkbox"/> Win7 x64	<input checked="" type="checkbox"/> Win7 x86	<input type="checkbox"/> Win8 x64	<input type="checkbox"/> Win8 x86
<input checked="" type="checkbox"/> Win81 x64	<input checked="" type="checkbox"/> Win81 x86	<input checked="" type="checkbox"/> Win10 x64	<input checked="" type="checkbox"/> Win10 x86

VERSION	PATH	TIMESTAMP
There are no results		

FIRST PAGE LAST PAGE 0 LISTINGS

2. After you have selected the OS versions, press the SAVE PATCH button and your patch will be saved

PATCHES INFO ADD PATCH

VERSION	PATH	TIMESTAMP
18.05.00.0	https://patchingprodcdn.azureedge.net/customer-55105/7z1805-x64.msi.enc?sv=2014-02-14&sr=c&sig=x6F1y9%2FK09msC3lc5dH%2BuitN03dwPpJCB1ZSL9dJec%3D&st=2018-09-06T13%3A30%3A34Z&se=2118-09-06T13%3A30%3A34Z&sp=rl	12.09.2018

FIRST PAGE LAST PAGE 1 LISTINGS

You can come back at any point and edit the patch if you forgot to do something just by clicking the link of the patch.

3. Last step is to Save your deployment package

APPLICATION INFO

APPLICATION NAME* ARCHITECTURE*

CUSTOM EXPRESSIONS*

[Show Custom Expressions Helper](#)

PATCHES INFO [ADD PATCH](#)

VERSION	PATH	TIMESTAMP
18.05.00.0	https://patchingprodcdn.azureedge.net/customer-55105/7z1805-x64.msi.enc?sv=2014-02-14&sr=c&sig=x6F1y9%2FK09msC3ic5dH%2BuitN03dwPpJCB1ZSLJ9dEc%3D&st=2018-09-06T13%3A30%3A34Z&se=2118-09-06T13%3A30%3A34Z&sp=r	12.09.2018

FIRST PAGE 1 LAST PAGE 1 LISTINGS

[SAVE](#) [CANCEL](#)

Deploy the package in my enterprise environment

Once you have saved your package, you are ready to deploy your software.

To enable your software, please follow these steps:

1. From the top menu select Group Policy



2. Select the group policy in which you want to enable your package (in case you have more than one policy). In case you have more than one policy and you want to activate the patch in all of them, you will have to repeat the below steps for each Group Policy
3. Select Thor Foresight
4. Select X-ploit Resilience
5. Enable Infinity Management (by default it is disabled)

[Back to Group policies](#)

Xploit Resilience Test

General

Thor Foresight

Thor Vigilance

DarkLayer Guard

VectorN Detection

Xploit Resilience

☒ Enable this module

☒ Enable Infinity management ⓘ

- Once Infinity management is enabled, your package will appear in the list below and you can choose to install it; only update; allow to install or all 3.

☒ Enable Infinity management ⓘ

MANAGE APPLICATIONS

INSTALL ALL <input type="checkbox"/>	UPDATE ALL <input type="checkbox"/>	ALLOW INSTALL <input type="checkbox"/>	APPLICATIONS ⓘ	DELAY OFF <input checked="" type="checkbox"/>	VERSION
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7-zip x64	Off <input checked="" type="checkbox"/>	Latest version ⓘ
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7-zip x86	Off	Latest version
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7-ZipABC	Off <input checked="" type="checkbox"/>	Latest version ⓘ

- The final step is to save the Group Policy and your package becomes available for your machines.

FAQ

How can I check what my Download Limit is?

You can do that by going to your Dashboard account > Select X-ploit Resilience from the left menu > Click on the Infinity Management View. Here you have a counter that will tell you how much traffic you've been using.

STANDARD VIEW | PATCHES PER ENDPOINTS VIEW | CURRENT VULNERABILITIES VIEW | **INFINITY MANAGEMENT VIEW**
A TOTAL OF 1 LISTINGS

3.5 MB Downloaded / 1.0 TB Total

How many applications am I allow to store?

You can store as many as you want, but the storage limit is 50GB.

You can check your storage by going to your dashboard account > Select X-ploit Resilience from the left menu > Click on the Infinity Management View > Click on the View Private Patching Storage. Here you can see a counter that will tell you how much space there is available.

Back to Infinity Management

A TOTAL OF 1 LISTINGS

1.7 MB Used / 50.0 GB Free

NAME	FILE SIZE	TIMESTAMP	ACTION
7Z1805-X64.MSLENC	1.7 MB	11.09.2018 18:08:27	✖

FIRST PAGE 1 LAST PAGE
GO TO PAGE
ITEMS PER PAGE

If your storage is full, you can free up space by deleting some of the applications that you are no longer use them. To delete an application, just press the red button next to it.

How does the Download Limit work?

The download limit tells you how much download traffic you can use on our cloud. Basically, it counts towards the download limit of privately uploaded patches from our cloud servers to their endpoints.

For example, if the customers' account is credited with 1TB download limit and he chooses to deploy a 10MB software within their organization that has 100 machines, it

means they will consume $10 \times 100 = 1000\text{MB}$, which is equal to approx. 1GB. After this deployment, they will remain with 999GB out of 1TB to consume.

Note: This limit can be set by Admins only